PTO/SB/08a (08-03)

Approved for use through 07/31/2008, OMB 0651-0031

U.S. Patent and Trademark Office; U.S. DEPARTMENT OF COMMERCE
Under the Paperwork Reduction Act of 1995, no persons are required to respond to a collection of information unless it contains a valid OMB control number.

INFORMATION DISCLOSURE STATEMENT BY APPLICANT

Substitute for form 1449A/PTO

(Use as many sheets as necessary)
Sheet 1 of 1 Attorney

U. S. PATENT DOCUMENTS Cite No. **Publication Date** Name of Patentee or Pages, Columns, Lines, Where Examiner **Document Number** MM-DD-YYYY Applicant of Cited Document Relevant Passages or Relevant Initials* Figures Appear Number-Kind Code² (il known) US-10/22/1940 Franz 2,218,707 mac AA US-MAC 05/14/1968 Strohmeyer, Jr. AB 3,383,694 US-Yamazaki et al 4,253,099 02/24/1981 MAC AC US-AD 4,958,167 09/18/1990 Schroeder MAC US-04/11/1995 Baranski, et al MAC AE 5,406,295 US-09/08/1998 Ogino, et al mac AF 5,805,113 US-US-US-US-US-US-US-HS. US-US-US-US-

FOREIGN PATENT DOCUMENTS						
Examiner Initials*	Cite No.1	Foreign Patent Document Country Code ³ "Number ⁴ "Kind Code ⁵ (<i>if known</i>)	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear	76
			-			
		-				

Examiner		Date	111 1
Signature	m catricos	Considered	4/22/2005

*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant. Applicant's unique citation designation number (optional). See Kinds Codes of USPTO Patent Documents at www.uspto.gov or MPEP 901.04. Enter Office that issued the document, by the two-letter code (WIPO Standard ST.3). For Japanese patent documents, the indication of the year of the reign of the Emperor must precede the serial number of the patent document. Skind of document by the appropriate symbols as indicated on the document under WIPO Standard ST.16 if possible.

6 Applicant is to place a check mark here if English language Translation is attached.

This collection of information is required by 37 CFR 1.97 and 1.98. The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.14. This collection is estimated to take 2 hours to complete, including gethering, preparing, and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, U.S. Department of Commerce, P.O. Box 1450, Alexandria, VA 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS, SEND TO: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.

PTO/SB/08b (08-03) Approved for use through 06/30/2008. OMB 0651-0031 U.S. Patent and Trademark Office; U.S. DEPARTMENT OF COMMERCE the Paperwork Reduction Act of 1995, no persons are required to respond to a collection of information unless it contains a valid OMB control number.

titute for form 1449B/PTO

INFORMATION DISCLOSURE STATEMENT BY APPLICANT

(Use as many sheets as necessary) Sheet 1

		_		
Complete If Known				
Application Number	10/786,731			
Filing Date	02/25/2004			
First Named Inventor	Jack Nilsson			
Art Unit	2821	_		
Examiner Name	Unknown			
Attorney Docket Number	200106.00004			

		NON PATENT LITERATURE DOCUMENTS	
Examiner Initials*	Cite No.1	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published.	T²
MAC	CA	HTTP://WWW.MAGNETICSCIENCES.COM/UWBANDVPOLANTS~NS4.HTML, "Ultra-Wideband (UWB) and Multiband antenna for RF, microwaves and UWB,"	
inac	СВ	HTTP://WWW.MAGNETICSCIENCES.COM/MULTIBEAMSATCOMANTENNA~NS4.HTML, "Multiple Beam Antenna for Satellite Communications and LOS Communications,"	
MAC	СС	HTTP://WWW.NORTHCOUNTRYRADIO.COM/ARTICLES/DISCFIG2.HTM, "Discone Figures,"	
mac	CD	HTTP://KYLETI.ASWWC.NET/INDEX.PHP?PAGE=PROJECTS&OLD_PROJECT+80211B_DISCONE, "Tim and David's 2.4 GHz802.11b Discone,"	
MAC	CE	HTTP://WWW.WAVE-REPORT.COM/TUTORIALS/OFDM.HTM, "OFDM Tutorial,"	
MAC	CF	BROADBAND WIRELESS INTERNET FORUM WHITE PAPER, "VOFDM Broadband Wireless Transmission and Its Advantages over Single Carrier Modulation; Document Number WP-1_TG-1," Boradban Wireless Internet Forum, p. 1-35, (December 15, 2000).	
		·	

Examiner Signature	neaheog	Date Considered	4/22	-/2005
	W			

^{*}EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

¹ Applicant's unique citation designation number (optional). 2 Applicant is to place a check mark here if English language Translation is attached. This collection of information is required by 37 CFR 1.97 and 1.98. The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.14. This collection is estimated to take 2 hours to complete, including gathering, preparing, and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, U.S. Department of Commerce, P.O. Box 1450, Alexandria, VA 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.